Product Information

ACRYLITE® Satinice ZD 24 polymer

Product Profile:

ACRYLITE® Satinice ZD 24 polymer is an amorphous, impact-modified light diffusing thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA).

Typical properties of ACRYLITE® Satinice zd polymers are:
• high weather resistance
• superior light diffusion (hiding power) and transmittance
• improved resistance to stress cracking
• good melt flow rate
• easy to color

The special properties of ACRYLITE® Satinice ZD 24 polymer are:
• high impact/break resistance and strength
• high melt strength
• high heat resistance

Application:

Used for extrusion applications including profiles and sheet.

Examples:

Light fixtures and automotive interior applications.

Processing:

ACRYLITE® Satinice ZD 24 polymer can be processed in injection molding machines and extrusion lines with 3- zone general purpose screws.

Packaging:

Available in 1500 lb. gaylord boxes; other packaging available on request.

Properties:

	Parameter	Unit	ASTM-Standard	ACRYLITE® Satinice ZD 24 polymer
Mechanical Properties				Typical Value
Tensile Strength		psi [MPa]	D 638	7330 [51]
Tensile Modulus		x10⁶ psi [GPa]	D 638	0.33 [2.3]
Tensile Elongation @ Yield		%	D 638	4 – 6
Tensile Elongation @ Break		%	D 638	43
Flexural Strength		psi [MPa]	D 790	18700 [128.9]
Flexural Modulus		x10⁶ psi [GPa]	D 790	0.30 [2.1]
Notched Izod	¼" bar @23°C	ft-lb/in [J/m]	D 256	0.62 [32.3]
Rockwell Hardness		M Scale	D 785	63
Thermal Properties				
Vicat Softening Point	264 psi	°F [°C]	D 1525	208 [98]
Deflection Temperature, Annealed	1.8MPa, 0.250"	°F [°C]	D 648	182 [83]
Coeff. of Linear Therm. Expansion	32 - 312ºF	in/ in/ºF	D 696	0.00004
Coeff. of Linear Therm. Expansion	0 - 100°C	mm/mm/°C	D 696	0.000072
Flammability UL 94	1.5 mm	Class	IEC 707	UL 94 HB
Rheological Properties				
Melt Flow Rate	230°C & 3.8 kg	g/10min	D 1238	0.80
Optical Properties	d = 3.2 mm			
Light Transmission		%	D 1003	87
Haze		%	D 1003	97
Yellowness Index			D 1925	3
Refractive Rndex			D 542	1.49
Other Properties				
Specific Gravity			D 792	1.15
Water Absorption		% Max	D 570	0.3
Mold Shrinkage		in/in, mm/mm	D 955	0.003-0.006

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.

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